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# GLAST Monthly PSR

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**GBM**

***Bill Browne***  
*GBM Instrument Manager*  
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# Accomplishments

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- ▶ ***Germans continue Phase C delay until May 1<sup>st</sup>. DJO is still working GBM issues and has agreed to support the April 30<sup>th</sup> thermal telecon with GSFC / SAI***
- ▶ ***Two German government houses have met in conference and agreed on funding; DLR is awaiting allocation from the Ministry.***
- ▶ ***“Build 2” FSW will meet all mission requirements***
- ▶ ***GBM MAR and ICD are currently under review by the Germans. MSFC is aware of no significant issues at this time.***
- ▶ ***GBM Quarterly held at NSSTC, April 10<sup>th</sup>. The NAR draft presentation review was constructive and comments incorporated.***
- ▶ ***The revised GBM schedule reflects a May 1<sup>st</sup> German start-up. The Germans have agreed to address schedule updates as a high priority when coming up to speed.***
- ▶ ***MSFC participated in a successful SIIS Acceptance Review***



# Issues/Problems

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- ▶ ***The continuing German schedule delays are nearing the point of impasse and are forcing descopes in flight h/w testing.***
- ▶ ***Maintaining 60 days of schedule slack in spite of indeterminate German funding.***
- ▶ ***Germans have requested to extend the magnetic shielding of the photo-multiplier tubes; initial tests / literature indicate that extending the mumetal (~ 2.5 cm) is required to meet the GBM 2% gain stability specification. Additional tests are planned.***
- ▶ ***Incomplete LAT-GBM ICD continues as a concern / risk.***



# Upcoming Events

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- ▶ ***Thermal Issues telecon - April 30th***
- ▶ ***Ground System PDR - May 1<sup>st</sup>***
- ▶ ***Start DJO phase C/D contact early May 03***
- ▶ ***Receive FEE electronics simulator from MPE***
- ▶ ***Receive Power Box Simulator from MPE***



# Rolling Wave Schedule

Activity ID	Activity Description	Current Start	Current Finish	APR	MAY	2003	JUN	JUL
GBM Instrument								
GBM Subsystem Milestones								
0312	MPE: Delivery of the BGO Crystals to DJO	01MAY03*	01MAY03					
5072	MPE Delivers Photomultipliers to DJO	01MAY03*	01MAY03					
6045	MPE Delivers Power Box Simulator to MSFC	30MAY03*	30MAY03					
6042	MPE Delivers FEE Interface Simulator to MSFC	30MAY03*	30MAY03					
6048	MSFC Delivers FEE Interface Simulator to SwRI	06JUN03	06JUN03					
GBM Flight Instrument Development								
0326	GSE - Prepare Software Plan	02JAN02A	01MAY03					
6061	Develop DPU-Test & Eval Sys (TES) Hardware	03MAR03A	30JUN03					
0335	Detector Module FM Redesign/Update Manufact Docs	01MAY03*	14MAY03					
0134	PwrBox ProtoFit Model Redsn & Update Manuf Docs	01MAY03*	14MAY03					
0182	Detailed Design of FEE, Detectors & PowerBox	01MAY03*	29OCT03					
0158	PwrBox ProtoFit Model Manufacture	15MAY03	06AUG03					
6064	Develop DPU-TES Software	02JUN03*	30SEP03					
6039	Develop GBM Instrument Simulator Software	02JUN03	02APR04					
6052	Develop GBM Instrument Simlator Hardware	02JUN03	02APR04					
6070	Develop Ground Supt Sys (GSS)-1 Hardware	01JUL03*	31OCT03					
GBM Instrument Flight Software								
0332	GBM FSW Unit Test Build 1.0	23JUN03*	12NOV03					
6018	GBM FSW Verification Test Description-Build 1.0	07JUL03*	12SEP03					

Start Date	03APR03		Early Bar
Finish Date	22DEC06		Progress Bar
Data Date	01APR03		Critical Activity
Run Date	28APR03 13:41		

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GL03

Sheet 1 of 1

GLAST GBM Project Schedule  
For PSR on 4/30/03  
(3 Month Lookahead)

Date	Revision	Checked	Approved